Piotr M Korczyk

List of Publications by Year in descending order

29 papers	935 citations	687363 13 h-index	501196 28 g-index
30 all docs	30 docs citations	30 times ranked	1117 citing authors

#	Article	IF	Citations
1	The structure and stability of multiple micro-droplets. Soft Matter, 2012, 8, 7269.	2.7	177
2	High-throughput automated droplet microfluidic system for screening of reaction conditions. Lab on A Chip, 2010, 10, 816.	6.0	106
3	Effects of unsteadiness of the rates of flow on the dynamics of formation of droplets in microfluidic systems. Lab on A Chip, 2011, 11, 173-175.	6.0	87
4	Speed of flow of individual droplets in microfluidic channels as a function of the capillary number, volume of droplets and contrast of viscosities. Lab on A Chip, 2011, 11, 3603.	6.0	75
5	Microfluidic traps for hard-wired operations on droplets. Lab on A Chip, 2013, 13, 4096.	6.0	54
6	Discontinuous Transition in a Laminar Fluid Flow: A Change of Flow Topology inside a Droplet Moving in a Micron-Size Channel. Physical Review Letters, 2012, 108, 134501.	7.8	49
7	Accounting for corner flow unifies the understanding of droplet formation in microfluidic channels. Nature Communications, 2019, 10, 2528.	12.8	47
8	Carboxymethylcellulose Adsorption on Molybdenite: The Effect of Electrolyte Composition on Adsorption, Bubbleâ€“Surface Collisions, and Flotation. Langmuir, 2014, 30, 11975-11984.	3.5	45
9	Block-and-break generation of microdroplets with fixed volume. Biomicrofluidics, 2013, 7, 024108.	2.4	38
10	Automated high-throughput generation of droplets. Lab on A Chip, 2011, 11, 3593.	6.0	37
11	Simple modular systems for generation of droplets on demand. Lab on A Chip, 2013, 13, 3689.	6.0	29
12	Laboratory and modeling studies of cloudâ€“clear air interfacial mixing: anisotropy of small-scale turbulence due to evaporative cooling. New Journal of Physics, 2008, 10, 075020.	2.9	23
13	Microfluidic architectures for efficient generation of chemistry gradations in droplets. Microfluidics and Nanofluidics, 2013, 14, 235-245.	2.2	17
14	Analysis of turbulence in a micro-channel emulsifier. International Journal of Thermal Sciences, 2007, 46, 1126-1141.	4.9	16
15	Metabolic reprogramming under hypoxic storage preserves faster oxygen unloading from stored red blood cells. Blood Advances, 2022, 6, 5415-5428.	5.2	15
16	Simultaneous Measurement of Viscosity and Optical Density of Bacterial Growth and Death in a Microdroplet. Micromachines, 2018, 9, 251.	2.9	13
17	Direction of epithelial folding defines impact of mechanical forces on epithelial state. Developmental Cell, 2021, 56, 3222-3234.e6.	7.0	13
18	Mixing of cloud and clear air in centimeter scales observed in laboratory by means of Particle Image Velocimetry. Atmospheric Research, 2006, 82, 173-182.	4.1	12

#	Article	IF	Citations
19	Ionic polarization of liquid-liquid interfaces; dynamic control of the rate of electro-coalescence. Applied Physics Letters, 2011, 99, .	3.3	11
20	Custom tailoring multiple droplets one-by-one. Lab on A Chip, 2013, 13, 4308.	6.0	11
21	Continuous Recirculation of Microdroplets in a Closed Loop Tailored for Screening of Bacteria Cultures. Micromachines, 2018, 9, 469.	2.9	11
22	Scaling up the Throughput of Synthesis and Extraction in Droplet Microfluidic Reactors. Journal of Flow Chemistry, 2015, 5, 110-118.	1.9	10
23	Turbulent mixing of clouds with the environment: Small scale two phase evaporating flow investigated in a laboratory by particle image velocimetry. Physica D: Nonlinear Phenomena, 2012, 241, 288-296.	2.8	8
24	Fixing the direction of droplets in a bifurcating microfluidic junction. Microfluidics and Nanofluidics, 2019, 23, 1.	2.2	7
25	Integration of capillaryâ€“hydrodynamic logic circuitries for built-in control over multiple droplets in microfluidic networks. Lab on A Chip, 2021, 21, 1771-1778.	6.0	7
26	Impact of inertia and channel angles on flow distribution in microfluidic junctions. Microfluidics and Nanofluidics, 2020, 24, 1.	2.2	6
27	Concentration on demand â€“ A microfluidic system for precise adjustment of the content of single droplets. Chemical Engineering Journal, 2022, 430, 132935.	12.7	4
28	Turbulent Flow in a Micro-Channel. , 2006, , .		2
29	Geometrical and Electrical Properties of Indium Tin Oxide Clusters in Ink Dispersions. Langmuir, 2012, 28, 1523-1530.	3.5	1